

## Purchasing Receipts





Dart Aerospace Ltd.  
1270 Aberdeen St  
Hawkesbury, ON  
K6A 1K7  
Canada

Tel (613) 632-5200

**PURCHASE ORDER  
PO039984**

**Supplier:** MCM001-VU  
McMaster-Carr Supply Co,  
P.O. Box 7690  
Chicago, IL 60680-7690 USA  
Phone: 330 995 5500  
Fax: 330 995 9600

**Ship To:** 1270 Aberdeen Street  
Hawkesbury  
ON  
K6A 1K7 Canada  
Phone: 613-632-5200

**PO No:** PO039984  
**PO Date:** 5/24/18  
**Due Date:** 5/29/18  
**Purchase Order Revision:**  
**Revision Date:**  
**Ship-To Contact:** Lavoie, Chantal  
Phone: clavoie@dartaero.com  
**Via:** Ground  
**Pymt Terms:** 2% 10 Net 30  
**Freight Terms:**  
**Special Comments:**

**E-MAILED**

MAY 24 2018

**Items**

Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price
1	MT-BRASS-C360-R1.500	2572T63 6 ft long	Brass C360 Round Bar 1.500"	Firmed	5/29/18	12 ft	0 ft	12 ft	\$46.55667/ft	\$558.68
2	8547K45	6 ft long	Tube ALT. P/N 8547K893 receive ea	Firmed	5/29/18	60 ft	0 ft	60 ft	\$34.25/ft	\$2,055.00
3	88805K74		6063 Aluminum 90° Angle, 1/8" Wall Thickness, 1/2" High x 1/2" Wide	Firmed	5/29/18	16 ft	0 ft	16 ft	\$1.36125/ft	\$21.78
4	1095K41	10/pk	Zerk	Firmed	5/29/18	10 Ea	100	0 Ea	\$0.352/Ea	\$3.52
5	95229A460	100/pk	Washer receive pcs	Firmed	5/29/18	100 pcs	100	0 pcs	\$0.0665/pcs	\$6.65
6	MDELRINB0.750X3.000W	8739K45	M Delrin Bar, White : MATERIAL: DELRIN II 150E OR ACETRON GP ACETAL receive ft	Firmed	5/29/18	4 ft	0 ft	4 ft	\$24.16/ft	\$96.64
7	1897A59		Handle	Firmed	5/29/18	4 Ea	4	0 Ea	\$4.56/Ea	\$18.24
8	90107A029	100/pk	Flat Washer	Firmed	5/29/18	100 Ea	100	0 Ea	\$0.0825/Ea	\$8.25
9	90128A265	100/pk	Socket Head Cap Screw	Firmed	5/29/18	100 Ea	100	0 Ea	\$0.1322/Ea	\$13.22
10	9559K41	10/pk	O-Ring	Firmed	5/29/18	30 Ea	30	0 Ea	\$1.268/Ea	\$38.04
11	97524A032	100/pk	Sealing Blind Rivet receive ea	Firmed	5/29/18	200 Ea	200	0 Ea	\$0.0982/Ea	\$19.64
12	98002A202	10/pk	Binding Post	Firmed	5/29/18	10 Ea	10	0 Ea	\$0.415/Ea	\$4.15

Plex 5/24/18 2:48 PM dart.lavoie.chanta

Items											
Line Item	Part	Supplier Part No	Description	Status	Due Date	Order Quantity	Received Quantity	Balance	Unit Price (USD)	Extended Price	
13	98380A473	10/pk	Dowel Pin	Firmed	5/29/18	20 Ea	✓ 25 Ea	20 Ea	\$0.837/Ea	\$16.74	
14	98381A510	50/pk	Pin	Firmed	5/29/18	50 Ea	✓ 50 Ea	50 Ea	\$0.214/Ea	\$10.70	
15	99908A102	50/pk	Flange Locknut, Steel	Firmed	5/29/18	50 Ea	✓ 50 Ea	50 Ea	\$0.2526/Ea	\$12.63	
16	C10-35	90576A118 50/pk	Cage Bumper Nut	Firmed	5/29/18	50 pcs	✓ 50 pcs	50 pcs	\$0.1828/pcs	\$9.14	
17	MT-O1-R0.750	8893K19 6 FT long	Tool Steel Round Bar 0.750 dia. receive ft	Firmed	5/29/18	18 ft	✓ 18 ft	18 ft	\$5.98/ft	\$107.64	
18	RBT18561-31	8485T13	10X Magna-Lite	Firmed	5/29/18	6 Ea	✓ 6 Ea	6 Ea	\$26.29/Ea	\$157.74	
19	D2484P	91343A100 10/pk	Lock Nut	Firmed	5/29/18	50 pcs	✓ 50 pcs	50 pcs	\$0.363/pcs	\$18.15	
20	12335A13	10 ft long	Edge Grip	Firmed	5/29/18	10 Ea	✓ 10 Ea	10 Ea	\$2.43/Ea	\$24.30	
21	8695K712		Polyurethane Rod 3/8 Dia., 48" Long, 80A (HARD)	Firmed	5/29/18	4 ft	✓ 4 ft	4 ft	\$10.035/ft	\$40.14	

Grand Total: \$3,240.99

## Order Notes

Procurement Quality Clauses  
 A005 RIGHT OF ENTRY  
 A016 PERSONNEL QUALIFICATION  
 A026 CERTIFICATION OF MATERIAL CONFORMANCE  
 A032 DOCUMENT SPECIAL REQUIREMENTS  
 A033 STATEMENT OF CONFORMITY/TEST RECORDS FOR NAS, AN and MS FASTENERS  
 A040 NOTIFICATION OF QUALITY ESCAPE  
 A041 QUALITY MANAGEMENT SYSTEM  
 A042 DART NOTIFICATION BY SUPPLIER  
 A043 RETENTION OF QUALITY DOCUMENTS  
 A048 COUNTERFEIT PARTS AVOIDANCE, DETECTION, MITIGATION AND DISPOSITION PROGRAM  
 A049 SUPPLIER AWARENESS



Terms & Condition of Purchasing(Suppliers) and Procurement Quality Clauses are an integral part of our AS9100 requirements. To learn in detail, please visit [www.dartaerospace.com](http://www.dartaerospace.com) for further explanation.

Plex 5/24/18 2:48 PM dart.lavoie.chantal



200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
PO039984  
Order Placed By  
Chantal Lavoie

McMaster-Carr Number  
4088649-03

Page 1 of 2  
05/24/2018

Line	Product	Ordered	Shipped
4	1095K41 Zinc-Plated Steel Grease Fitting, Straight, 1/4"-28 SAE-LT Male, 35/64" Overall Length, Packs of 10	1 Pack	1
5	95229A460 Cadmium-Plated Steel MIL. Spec. Washer for 5/16" Screw Size, NAS 1149-F0563P, Packs of 100	1 Pack	1
7	1897A59 Oval Grip Pull Handle with Threaded Holes, Aluminum, 4-9/16" Center-to-Center Width	4 Each	4
8	90107A029 316 Stainless Steel Washer for 1/4" Screw Size, 0.281" ID, 0.625" OD, Packs of 100	1 Pack	1
9	90128A265 Zinc-Plated Alloy Steel Socket Head Screw, M6 x 1 mm Thread, 25 mm Long, Packs of 100	1 Pack	1
10	9559K41 Ultra-Chemical-Resistant Rigid PTFE O-Ring, 1/8 Fractional Width, Dash Number 219, Packs of 10	3 Packs	3
11	97524A032 Sealing Blind Rivets, Aluminum, Domed Head, with Aluminum Mandrel, 1/8" Diameter, 0.425" Long, Packs of 100	2 Packs	2
12	98002A202 Steel Binding Barrels and Screws, 10-24 Thread Size, for 3/8"-1/2" Material Thickness, Packs of 10	1 Pack	1
13	98380A473 416 Stainless Steel Dowel Pins, 1/8" Diameter, 3/4" Long, Packs of 25	1 Pack	1
14	98381A510 Dowel Pin, Alloy Steel, 3/16" Diameter, 1" Long, Packs of 50	1 Pack	1
15	99908A102 High-Strength Steel Nylon-Insert Flange Locknut, Class 10, Zinc Yellow-Chromate Plated, M8 x 1.25 mm Thread, Packs of 50	1 Pack	1
16	90576A118 Medium-Strength Steel Nylon-Insert Locknut, Class 8, Zinc-Plated, M10 x 1.5 mm Thread, Packs of 50	1 Pack	1
18	8485T13 Incandescent-Illuminated Magnifying Glass, 10x, 1-1/4" Long x 1-3/8" Wide Lens	6 Each	6
19	91343A100 316 Stainless Steel Serrated Flange Locknut, Super-Corrosion-Resistant, 1/4"-20 Thread Size, Packs of 10	5 Packs	5
20	12335A13 Water- & Weather-Resistant Rubber Push-on Seal with Bulb on Top, Hollow, for 3/64"-1/16" Edge, 10' Long	10 Feet	10
21	8695K712 Abrasion-Resistant Polyurethane Rubber Rod, 48" Long, 3/8" Diameter, 80A Durometer	1 Each	1

### Expected to ship

1	2572T63 Ultra-Machinable 360 Brass Rod with Certification, 1-1/2" Diameter, 6 Feet Long	2 Each	2 May 29-30
---	---	--------	-------------

# Packing List

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

Purchase Order  
**PO039984**  
Order Placed By  
**Chantal Lavoie**

Page 2 of 2  
05/24/2018

McMaster-Carr Number  
**4088649-03**

Line	Description	Ordered	Shipped
2	<b>8547K893</b> Tube Made From PTFE, 1" OD X 1/2" ID	<b>60</b> Feet	<b>60</b> May 31-Jun 7

## Notes about your shipment

The U.S. Department of Transportation regulates the shipping of line 18. By purchasing from McMaster-Carr Supply Company, you agree not to transport or permit others to transport purchased items except in accordance with U.S. law and any other applicable laws.



# McMASTER-CARR®

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

## Packing List

Page 1 of 1  
05/24/2018

Purchase Order  
PO039984  
Order Placed By  
Chantal Lavoie

McMaster-Carr Number  
4088649-01

Ordered 2  
Shipped  
Each 2

Line Product

3 88805K74 Architectural 6063 Aluminum 90 Degree Angle, 1/8" Wall Thickness, 1/2" High x 1/2" Wide, 8 Feet Long

### Expected to ship

1	2572T63	Ultra-Machinable 360 Brass Rod with Certification, 1-1/2" Diameter, 6 Feet Long	2	May 29-30
2	8547K893	Tube Made From PTFE, 1" OD X 1/2" ID	60	May 31-Jun 7

200 Aurora Industrial Pkwy  
Aurora OH 44202-8087  
330-995-5500  
cle.sales@mcmaster.com

Dart Aerospace Ltd  
1270 Aberdeen St  
Hawkesbury ON K6A 1K7  
Canada

## Packing List

Page 1 of 1

05/24/2018

Purchase Order  
PO039984  
Order Placed By  
Chantal Lavoie

McMaster-Carr Number  
4088649-02

Line	Product	Ordered	Shipped
6	8739K45 White Delrin Acetal Resin Oversized Bar, 3/4" Thick, 3" Wide, 4' Length	4 Feet	4
17	8893K19 Tight-Tolerance Multipurpose O1 Tool Steel Rod, 0.7500" Diameter, 6 Feet Long	3 Each	3

## Expected to ship

1	2572T63 Ultra-Machinable 360 Brass Rod with Certification, 1-1/2" Diameter, 6 Feet Long	2 Each	2 May 29-30
2	8547K893 Tube Made From PTFE, 1" OD X 1/2" ID	60 Feet	60 May 31-Jun 7

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: MT-01-R0.750  
 DATE: MAY 30 2018

PO / BATCH NO. 039984/5025935

MATERIAL CERT REC'D: Yes  
 QUANTITY RECEIVED: 181  
 QUANTITY INSPECTED: 181  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750  
 THICKNESS RECEIVED: 0.750  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Astm A681</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>6#039984 Part # 8893K19</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u> DATE: <u>9-88 MAY 30 2018</u>	SIGNED OFF BY: _____ DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

## SPECIFICATION CONTROL DRAWING

PURCHASE MATERIAL : AISI O1 TOOL STEEL ROUND BAR

SPECIFICATION:

DIN 1.2510 or B.S. BO 1 or  
SAE J437 or SAE J438  
or UNS T31501 or ASTM A681

MT-O1-R [D.DDD]

WHERE "D.DDD" = DIAMETER IN INCHES

EG. 5/8" ROUND BAR = MT-O1-R0.625

PART NUMBER:

C

D

B

A

1	2	3	4	5	6	7	8
REV.	DESCRIPTION	REV.	REV.	REV.	REV.	REV.	REV.
A	NEW ISSUE						

C

B

A

<b>DART</b>		Waterloo, Ontario, Canada
<b>AEROSPACE</b>		
<b>MT-O1 TOOL STEEL ROUND BAR</b>		
DESIGN NO:	MT-O1-R	REV: A
DRAWN BY:	VM 8/9/2017	300-2-205 FRACTIONS & 1/8
DRAWN BY:	VM 08/31/2017	ANGLES 1/8 & 1/16
CHECKED:	SAC 08/31/2017	2X & 3X
MFG. APPR:	DP 09/05/2017	1. DIMENSIONS ARE IN INCHES
QA APPR:	PD 09/12/2017	2. UNLESS OTHERWISE SPECIFIED
APPROVED:	VM 09/12/2017	ANGLES TO 1/16" AND TOL PER
DATE:	VM 09/12/2017	3. DIMENSIONAL LIMITS APPLY
SCALE:	1:1	AFTER PLATING
INSTRUMENT:	N/A	VM 09/12/2017
CLAS:	N/A	VM 09/12/2017
SHEET 1 OF 1		

COPYRIGHT © 2017 BY DART AEROSPACE LTD.  
 THIS DOCUMENT IS PROPRIETARY AND IS THE PROPERTY OF DART AEROSPACE LTD.  
 IT IS NOT TO BE COPIED, USED, OR DISCLOSED EXCEPT AS EXPRESSLY APPROVED.  
 DART AEROSPACE LTD.  
 1100 DART AEROSPACE LTD.

2

EN 17-49

3

4

5

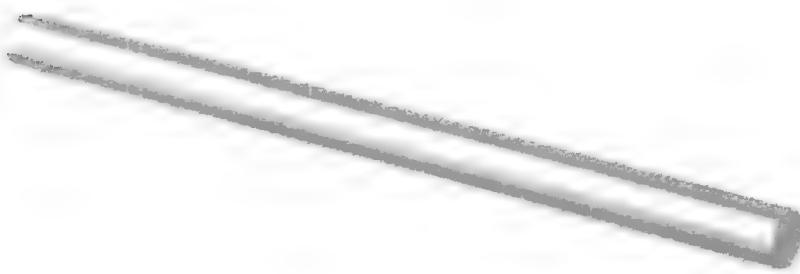
6

7

8

**Tight-Tolerance Multipurpose O1 Tool Steel Rod**  
0.7500" Diameter

8893K19



Material	O1 Tool Steel
Cross Section Shape	Round
Construction	Solid
Appearance	Plain
Diameter	0.75"
Diameter	-0.001" to 0.001"
Tolerance	Tight
Rating	Medium
Yield Strength	50,000 psi
Temper	Softened
Rating	(Annealed)
Hardness	Rockwell B90
Hardness Rating	Medium
Heat Treatable	Yes
Maximum Hardness after Heat Treatment	Rockwell C65
Mechanical Finish	Precision Ground
Temperature Range	Not Rated
Specifications	ASTM A681
Straightness Tolerance	Not Rated
Density	0.28 lbs./cu. in.
Coefficient of Thermal Expansion	$7.1 \times 10^{-6}$

Elongation	25%
Material	
Composition	
Iron	94.79-96.95%
Carbon	0.85-1.05%
Chromium	0.40-0.70%
Manganese	1.00-1.40%
Nitrogen	0.40-0.60%
Phosphorus	0-0.030%
Silicon	0-0.50%
Sulfur	0-0.030%
Tungsten	0.40-0.60%
Vanadium	0-0.30%
Length	1 ft., 3 ft., 6 ft.
Additional Specifications	Guidelines for Heat Treating Tool Steel
RoHS	Compliant

These precision-ground rods have a tight diameter tolerance. Commonly used for dies, punches, and gauges, O1 tool steel is an oil-hardening material that resists wear and abrasion.

# MATERIAL RECEIPT INSPECTION FORM

MATERIAL: M Delrin Bar. 750X3.000  
 DATE: MAY 30 2018

PO / BATCH NO: 039984/50 75934

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 4  
 QUANTITY INSPECTED: 4  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: 0.750  
 THICKNESS RECEIVED: 0.750  
 SHEET SIZE ORDERED: N/A  
 SHEET SIZE RECEIVED: N/A

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Delrin Bar white Part # 8239145</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>PO# 039984</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAY 30 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in



DESIGN #	DRAWN BY #	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
CHECKED CP	APPROVED #	DRAWING NO. M- DELRIN - B	REV A SHEET 1 OF 1
DATE 02 04.30		TITLE DELRIN BAR	SCALE N.T.C.
A	02 04 30	NEW ISSUE	
A1	02 06.04 CP	ADD "ACETRON GP ACETAL" AS OPTION	

PURCHASE MATERIAL:

DELRIN II 150E OR ACETRON GP ACETAL



Chf

PART NUMBER:

M- DELRIN - B | T.TTT | X | W.WWW | WHERE T.TTT = THICKNESS (IN INCHES)  
THICK | WIDTH | W.WWW = WIDTH (IN INCHES)

EG. 0.5" X 1.0" BAR = M- DELRIN - B 0.500 X 01.000

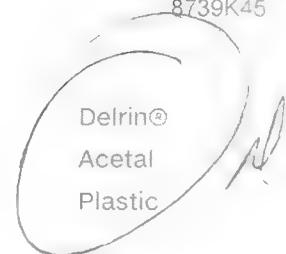
RELEASED  
as of 4/1

Copyright © 2002 by DART AEROSPACE LTD

THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.

## White Delrin® Acetal Resin Oversized Bar 3/4" Thick, 3" Wide

In stock  
\$24.16 per ft.  
8739K45



Material	Delrin® Acetal Plastic
Cross Section	Rectangle
Shape	
Construction	Solid
Texture	Smooth
Color	White
Clarity	Opaque
Thickness	3/4"
Thickness	0" to 3/4"
Tolerance	+0.025"
Tolerance	Oversized
Rating	
Width	3"
Width	0" to +1/4"
Tolerance	
Length	1 ft., 2 ft., 3 ft., 4 ft.
Backing Type	Plain
Hardness	Rockwell M90
Hardness	Hard
Rating	
For Use	No
Outdoors	
Temperature Range	-20° to 180° F
Impact	1.00
Strength	ft.-lbs./in.
Impact	
Strength	Good
Rating	

Tensile Strength	9,000 psi
Tensile Strength	Good
Rating	
Specifications Met	ASTM D6100, Made of FDA Listed Material, NSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water
Density	0.051 lbs./cu. in.
Coefficient of Friction	0.20
Dielectric Strength	435 V/mil
Water Absorption	0.30%
Coefficient of Thermal Expansion	$8.5 \times 10^{-5}$ in./in./°F
RoHS	Compliant

These sheets, bars, and strips are made of Delrin® acetal resin, a wear-resistant material with a naturally slippery surface. Also known as acetal homopolymer, it resists moisture and has the ability to hold tight tolerances. It's often used for gears, bushings, and bearings.

## MATERIAL RECEIPT INSPECTION FORM

MATERIAL: 88805K74 (6063 Aluminum)

PO / BATCH NO.: 039984/5075936

DATE: MAY 30 2018

MATERIAL CERT REC'D: YES  
 QUANTITY RECEIVED: 16  
 QUANTITY INSPECTED: 16  
 QUANTITY REJECTED: 0

THICKNESS ORDERED: W 1/8  
 THICKNESS RECEIVED: W 1/8  
 SHEET SIZE ORDERED: 11x11  
 SHEET SIZE RECEIVED: 11x11

DESCRIPTION	NCR (Check Y/N)	COMMENTS
SURFACE DAMAGE	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT FINISH	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORROSION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT GRAIN DIRECTION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT MATERIAL PER M-DRAWING	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>Part # 88805K74</i>
CORRECT THICKNESS	<input checked="" type="radio"/> Y <input type="radio"/> N	
PHOTO REQUIRED	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT REF # TO LINK CERT	<input checked="" type="radio"/> Y <input type="radio"/> N	<i>PO# 039984</i>
CORRECT MATERIAL IDENTIFICATION	<input checked="" type="radio"/> Y <input type="radio"/> N	
CORRECT M# ON THE MATERIAL	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS MATERIAL REQUIRE ENGINEERING SIGN OFF	<input checked="" type="radio"/> Y <input type="radio"/> N	
DOES THIS REQUIRE AN EXTRUSION REPORT	<input checked="" type="radio"/> Y <input type="radio"/> N	

CUT SAMPLE PIECE OF MATERIAL AND PERFORM A HARDNESS CHECK. RECORD RESULTS BELOW					
TYPE OF MATERIAL SIZE OF TEST SAMPLE HARDNESS / DUROMETER READING	HRC	HRB	DUR A	DUR D	WEBSTER

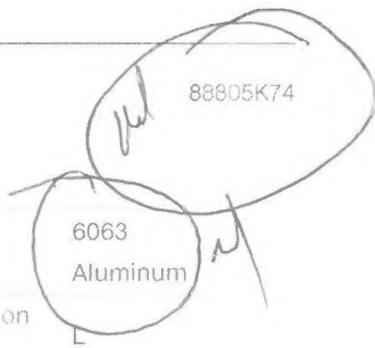
*testers located in the Quality Office*

QC 18 INSPECTION	ENGINEERING SIGNOFF (if required)
INSPECTED BY: <u>DAS</u> <u>11</u>	SIGNED OFF BY: _____
DATE: <u>9-89 MAY 30 2018</u>	DATE: _____

Attach this inspection sheet with the corresponding material cert and remit to be scanned and received in

# McMASTER-CARR.

Architectural 6063 Aluminum 90 Degree Angle  
1/8" Wall Thickness, 1/2" High x 1/2" Wide



Material	6063 Aluminum
Cross Section Shape	L
Corner Shape	
Outside	Square
Inside	Square
Leg Edge Shape	Square
Construction	Solid
Appearance	Plain
Wall Thickness	1/8"
Tolerance	Standard
Rating	
Outside	
Height	1/2"
Height	-0.014" to
Tolerance	0.014"
Width	1/2"
Width	-0.014" to
Tolerance	0.014"
Inside	
Height	0.38"
Width	0.38"
Yield Strength	16,000 psi
Fabrication	Heat Treated
Temper	T5 (Hardened)
Hardness	Brinell 55
Hardness Rating	Soft
Heat Treatable	Yes
Temperature Range	-320° to 212 F
Specifications Met	ASTM B221

Straightness	0.013" per ft.
Tolerance	
Magnetic Properties	Nonmagnetic
Density	0.1 lbs./cu. in.
Surface Resistivity	20 Ohm-Cir Mil/ft
Melting Point Temperature	1110° F
Modulus of Elasticity	10.0 ksi $\times 10^3$
Thermal Conductivity	1,420 Btu/hr. $\times$ in./sq. ft./ F @ 77° F
Elongation	11%
Material Composition	
Aluminum	97.5-99.35%
Chromium	0-0.1%
Copper	0-0.1%
Iron	0-0.35%
Magnesium	0.45-0.9%
Manganese	0-0.1%
Silicon	0.2-0.6%
Titanium	0-0.1%
Zinc	0-0.1%
Other	0-0.15%
Length	
Tolerance	-1" to 1"
Length	4 ft., 8 ft.
RoHS	Compliant

Commonly used outdoors as architectural trim, railings, and door frames, 6063 aluminum has better machinability than 3003. It is nonmagnetic and heat treatable.